

USSN: 09/974,882

GTI-1320-CON1

6 January 2004

AMENDMENT (claims)

Please amend the claims as follows:

1-20. (canceled)

21. (currently amended) A method for the ex vivo introduction of at least one chromosome into a eukaryotic cell, wherein said cell is not a plant cell, said method comprising contacting at least one chromosome substantially simultaneously with the application of an electric pulse to the cell under conditions sufficient to cause transformation of said cell by said chromosome, wherein the at least one chromosome is a gene-bearing DNA/protein complex, a natural human chromosome, a mammalian chromosome, an artificial chromosome, or a yeast chromosome, and wherein said at least one chromosome is encapsulated in a liposome ~~or micelle~~.

22-23. (canceled)

24. (original) The method of claim 21, wherein the method further comprises verifying that the cell has been transformed with the at least one chromosome.

25. (previously amended) The method of claim 24, wherein the verifying involves fluorescence activated cell sorting of the cells to obtain those cells that contain the at least one chromosome

26. (currently amended) A method for the ex vivo introduction of at least one chromosome into a eukaryotic cell, wherein said cell is not a plant cell, said method comprising (i) contacting at least one chromosome substantially simultaneously with the application of an electric pulse to the cell under conditions sufficient to cause transformation of said cell by said chromosome, wherein the at least one chromosome is a gene-bearing DNA/protein complex, a natural human chromosome, a mammalian chromosome, an artificial chromosome, or a yeast chromosome, and wherein said at least one chromosome is encapsulated in a liposome ~~or micelle~~, and (ii) verifying said transformation by fluorescence activated cell sorting to obtain those cells that contain the at least one chromosome.